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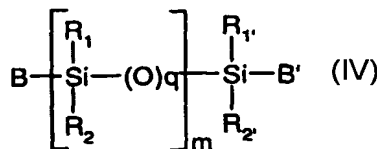
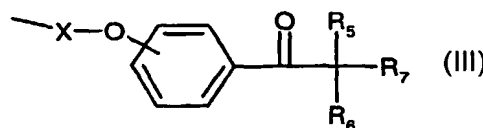
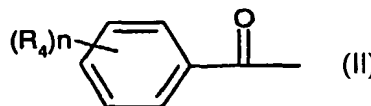
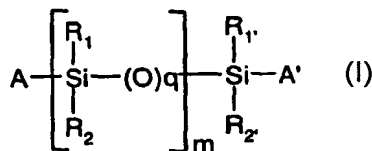
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(54) Title: ENZYMATIC PROCESS FOR PREPARING ORGANOSILICON GROUP CONTAINING PHOTOINITIATORS



(57) Abstract: The invention relates to a process for preparing organosilicon group containing photoinitiators of the formula (I), wherein m is a number from 1 to 200; q is 0 or 1; A is IN-C(O)-O-CHR<sub>3</sub>-Y- or IN-C(O)-NH-CHR<sub>3</sub>-Y-; A' is A or R<sub>1</sub>'; R<sub>1</sub> and R<sub>1</sub>', R<sub>2</sub> and R<sub>2</sub>' are C<sub>1</sub>-C<sub>18</sub>alkyl or phenyl, or -(O)<sub>4</sub>-SiR<sub>1</sub>R<sub>1</sub>'R<sub>2</sub>; R<sub>3</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>alkyl, Y is a divalent group selected from C<sub>1</sub>-C<sub>10</sub>alkylene, C<sub>2</sub>-C<sub>10</sub>alkenylene or -(CH<sub>2</sub>)<sub>b</sub>-O-(CH<sub>2</sub>)<sub>a</sub>-; and b are each independently of the other a number of 1 to 6; IN is a photolabile functional moiety of the formula (II) or (III), wherein R<sub>4</sub> is hydrogen or -C(O)-C(O)-OH or -C(O)-C(O)-OC<sub>1</sub>-C<sub>6</sub>alkyl and n is 1-3; R<sub>5</sub> and R<sub>6</sub> are C<sub>1</sub>-C<sub>12</sub>alkyl or together are cycloC<sub>5</sub>-C<sub>7</sub>alkyl; R<sub>7</sub> is hydroxy, C<sub>1</sub>-C<sub>6</sub>alkoxy or morpholinyl; X is -(CH<sub>2</sub>)<sub>a</sub>-, -(CH<sub>2</sub>)<sub>b</sub>-O-(CH<sub>2</sub>)<sub>a</sub>- or -(CH<sub>2</sub>)<sub>b</sub>-O-CO-(CH<sub>2</sub>)<sub>a</sub>-; a and b are each independently of the other a number of 1 to 6; whereby the process is characterized in that a photolabile functional moiety containing a carboxy group (IN-COOH) or an alkoxycarbonyl group (IN-CO-OC<sub>1</sub>-C<sub>6</sub>alkyl) is reacted with a carbinol- or amino terminated organosilicon compound of the formula (IV), wherein m, R<sub>1</sub> and R<sub>1</sub>', R<sub>2</sub> and R<sub>2</sub>' are as defined above and B is -Y-CHR<sub>3</sub>-OH or -Y-CHR<sub>3</sub>-NH<sub>2</sub>; B' is B or R<sub>1</sub>', in the presence of an enzyme which catalyzes the esterification, transesterification or amidation reaction.